

DEPARTMENT OF THE AIR FORCE 59TH MEDICAL WING (AETC) JOINT BASE SAN ANTONIO - LACKLAND TEXAS



28 JUNE 2017

MEMORANDUM FOR 959 MDOS

ATTN: MAJ ADRIENNE LAURY

FROM: 59 MDW/SGVU

SUBJECT: Professional Presentation Approval

1. Your paper, entitled <u>Balloon Catheter Dilation for the Treatment of "Sinus Pressure"</u>
<u>Headaches</u> presented at/published to <u>Otolaryngology – Head and Neck Surgery & AAO-HNS Annual Meeting, I1, Sept 10-13, 2017</u>

2. in accordance with MDWI 41-108, has been approved and assigned local file #17270.

- 3. Pertinent biographic information (name of author(s) title, etc.) has been entered into our computer file. Please advise us (by phone or mail) that your presentation was given. At that time, we will need the date (month, day and year) along with the location of your presentation. It is important to update this information so that we can provide quality support for you, your department, and the Medical Center commander. This information is used to document the scholarly activities of our professional staff and students, which is an essential component of Wilford Hall Ambulatory Surgical Center (WHASC) internship and residency programs.
- 4. Please know that if you are a Graduate Health Sciences Education student and your department has told you they cannot fund your publication, the 59th Clinical Research Division may pay for your basic journal publishing charges (to include costs for tables and black and white photos). We cannot pay for reprints. If you are a 59 MDW staff member, we can forward your request for funds to the designated Wing POC at the Chief Scientist's Office, Ms. Alice Houy, office phone: 210-292-8029; email address: alice.houy.civ@mail.mil.
- 5. Congratulations, and thank you for your efforts and time. Your contributions are vital to the medical mission. We look forward to assisting you in your future publication/presentation efforts.

LINDA STEEL-GOODWIN, Col, USAF, BSC Director, Clinical Investigations & Research Support

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PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS

INSTRUCTIONS

USE ONLY THE MOST CURRENT 59 MDW FORM 3039 LOCATED ON AF E-PUBLISHING

- 1. The author must complete page two of this form:
 - a. In Section 2, add the funding source for your study [e.g., 59 MDW CRD Graduate Health Sciences Education (GHSE) (SG5 O&M); SG5 R&D; Tri-Service Nursing Research Program (TSNRP); Defense Medical Research & Development Program (DMRDP); NIH; Congressionally Directed Medical Research Program (CDMRP); Grants; etc.]
 - b. In Section 2, there may be funding available for journal costs, if your department is not paying for figures, tables or photographs for your publication. Please state "YES" or "NO" in Section 2 of the form, if you need publication funding support.
- 2. Print your name, rank/grade, sign and date the form in the author's signature block or use an electronic signature.
- 3. Attach a copy of the 59 MDW IRB or IACUC approval letter for the research related study. If this is a technical publication/presentation, state the type (e.g. case report, QA/QI study, program evaluation study, informational report/briefing, etc.) in the "Protocol Title" box.
- 4. Attach a copy of your abstract, paper, poster and other supporting documentation.
- 5. Save and forward, via email, the processing form and all supporting documentation to your unit commander, program director or immediate supervisor for review/approval.
- 6. On page 2, have either your unit commander, program director or immediate supervisor:
 - a. Print their name, rank/grade, title; sign and date the form in the approving authority's signature block or use an electronic signature.
- 7. Submit your completed form and all supporting documentation to the CRD for processing to: usaf.jbsa.59-mdw.mbx.wing-crd-publications-and-presentations@mail.mil. This should be accomplished no later than 30 days before final clearance is required to publish/present your materials. If you have any questions or concerns, please contact the 59 CRD/Publications and Presentations Section at 292-7141 for assistance.
- 8. The 59 CRD/Publications and Presentations Section will route the request form to clinical investigations, 502 ISG/JAC (Ethics Review) and Public Affairs (59 MDW/PA) for review and then forward you a final letter of approval or disapproval.
- 9. Once your manuscript, poster or presentation has been approved for a one-time public release, you may proceed with your publication or presentation submission activities, as stated on this form. Note: For each new release of medical research or technical information as a publication/presentation, a new 59 MDW Form 3039 must be submitted for review and approval.
- 10. If your manuscript is accepted for scientific publication, please contact the 59 CRD/Publications and Presentations Section at 292-7141. This information is reported to the 59 MDW/CC. All medical research or technical information publications/presentations must be reported to the Defense Technical Information Center (DITC). See 59 MDWI 41-108, Presentation and Publication of Medical and Technical Papers, for additional information.
- 11. The Joint Ethics Regulation (JER) DoD 5500.07-R, Standards of Conduct, provides standards of ethical conduct for all DoD personnel and their interactions with other non-DoD entities, organizations, societies, conferences, etc. Part of the Form 3039 review and approval process includes a legal ethics review to address any potential conflicts related to DoD personnel participating in non-DoD sponsored conferences, professional meetings, publication/presentation disclosures to domestic and foreign audiences, DoD personnel accepting non-DoD contributions, awards, honoraria, gifts, etc. The specific circumstances for your presentation will determine whether a legal review is necessary. If you (as the author) or your supervisor check "NO" in block 17 of the Form 3039, your research or technical documents will not be forwarded to the 502 ISG/JAC legal office for an ethics review. To assist you in making this decision about whether to request a legal review, the following examples are provided as a guideline:

For presentations before professional societies and like organizations, the 59 MDW Public Affairs Office (PAO) will provide the needed review to ensure proper disclaimers are included and the subject matter of the presentation does not create any cause for DoD concern.

If the sponsor of a conference or meeting is a DoD entity, an ethics review of your presentation is not required, since the DoD entity is responsible to obtain all approvals for the event.

If the sponsor of a conference or meeting is a non-DoD commercial entity or an entity seeking to do business with the government, then your presentation should have an ethics review.

If your travel is being paid for (in whole or in part) by a non-Federal entity (someone other than the government), a legal ethics review is needed. These requests for legal review should come through the 59 MDW Gifts and Grants Office to 502 ISG/JAC.

If you are receiving an honorarium or payment for speaking, a legal ethics review is required.

If you (as the author) or your supervisor check "YES" in block 17 of the Form 3039, your research or technical documents will be forwarded simultaneously to the 502 ISG/JAC legal office and PAO for review to help reduce turn-around time. If you have any questions regarding legal reviews, please contact the legal office at (210) 671-5795/3365, DSN 473.

- NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement:
 - "The views expressed are those of the [author(s)] [presenter(s)] and do not reflect the official views or policy of the Department of Defense or its Components'
- NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement for research involving humans:
 - "The voluntary, fully informed consent of the subjects used in this research was obtained as required by 32 CFR 219 and DODI 3216.02_AFI 40-402."
- NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement for research involving animals, as required by AFMAN
 - "The experiments reported herein were conducted according to the principles set forth in the National Institute of Health Publication No. 80-23, Guide for the Care and Use of Laboratory Animals and the Animal Welfare Act of 1966, as amended."

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must be submitted for re The Effects of Balloon Sinuplasty on Baror		" Hea	daches			
6. TITLE OF MATERIAL TO BE PUBLISHED OF	R PRESENTED:					
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7. FUNDING RECEIVED FOR THIS STUDY?	YES NO FUND	ING S	OURCE:			
8. DO YOU NEED FUNDING SUPPORT FOR P	UBLICATION PURPOSE	:S: [YES NO			
9. IS THIS MATERIAL CLASSIFIED? YES						
10. IS THIS MATERIAL SUBJECT TO ANY LEGAND DEVELOPMENT AGREEMENT (CRADA), YES NO NOTE: If the answer is YES to	MATERIAL TRANSFER	AGREE	EMENT (MTA), INTELL	ECTUAL PROPER	TY RIGHTS	ABORATIVE RESEARCH AGREEMENT ETC.?
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12. HAVE YOUR ATTACHED RESEARCH/TEC	HNICAL MATERIALS BE	EN PF	REVIOUSLY APPROVE	D TO BE PUBLISH	HED/PRESE	NTED?
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14. 59 MDW PRIMARY POINT OF CONTACT	(Last Name, First Name,	M.I., e	mail)		15. DUTY	PHONE/PAGER NUMBER
Laury, Adrienne, M, adrienne.m.laury.mil(610-533-1	282
16. AUTHORSHIP AND CO-AUTHOR(S) List in	n the order they will appe	ar in th	e manuscript.			
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17. IS A 502 ISG/JAC ETHICS REVIEW REQU	IRED (JER DOD 5500.0	7-R)?	☐ YES ⊠ NO			
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26. DATE REVIEWED		27. DATE FORWARDED TO 502 ISG/JAC	
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28. AUTHOR CONTACTED FOR RECOMMENDED OF		ES: NO X YES If yes, give date. 23 Jun 2017	N/A
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for the Treatment of "Sinus Balloon Catheter Dilation Pressure" Headaches

Adrienne M. Laury MD May 19, 2017

Disclaimer

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Background

- Barometric pressure/ "sinus" headache is a relatively common phenomenon
- exacerbated by changes in barometric pressure or Definition: Sensation of pressure or pain in the head/face overlying the paranasal sinuses weather patterns
- headache pathologies ie. Migraine, cluster, tension, Must be differentiated from other common medication overuse, etc

Background

- Balloon catheter dilation of sinus ostia procedure which dilates the ostia of the sinuses (maxillary, frontal, and/or sphenoid)
- and utilized for the treatment of chronic and acute FDA approved in 2006 and predominantly studied rhinosinusitis

Clinical Question

Does balloon catheter dilation of sinus ostia effect the severity or frequency of "sinus"/barometric pressure related headaches

Methods

- Patients with barometric pressure related headaches were recruited.
- Patients underwent CT of the sinuses and were required to have a Lund-Mackay score of 0
- Patients were given HIT-6 and SNOT-22 questionnaires as well as medication log to document all headache medications

9-LIH

1. When you have headaches, how often is the pain severe?

Always	 es including household	
Very often	to do usual daily activities i	
Sometimes	 How often do headaches limit your ability to work work school, or social activities? 	
Rarely	 en do headache	
Never.	2. How off work work	

Always	down?
Very often	When you have a headache, how often do you wish you could lie down?
Sometimes	the, how often do you
Rarely	ou have a headac
Never	3. When yo

	ties becau
Always	 r daily activi
Very often	4. In the past 4 weeks, how often have you felt too tired to do work or daily activities becau
Sometimes	w often have you felt
Rarely	ast 4 weeks, ho
Never	4. In the pa

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activities	
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WOI'K OF	
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Never	Rarely	Sometimes	Never Rarely Sometimes Very often Always	Always
5. In the pa	st 4 weeks. ho	w often have you felt	fed up or irritated be	5. In the past 4 weeks, how often have you felt fed up or irritated because of your headaches?
Never		Sometimes	Very often	Always
6. In the past 4 weeks, daily activities?	st 4 weeks, ho ties?	w often did headache	how often did headaches limit your ability to concentrate or	6. In the past 4 weeks, how often did headaches limit your ability to concentrate on work or daily activities?

Always

Very often

Sometimes

Rarely

Never



Methods

- Patients with barometric pressure related headaches were recruited.
- Patients underwent CT of the sinuses and were required to have a Lund-Mackay score of 0
- Patients were given HIT-6 and SNOT-22 questionnaires as well as medication log to document all headache medications
- Clinically meaningful response HIT-6 decrease of 6 points and SNOT-22 decrease of 8.9

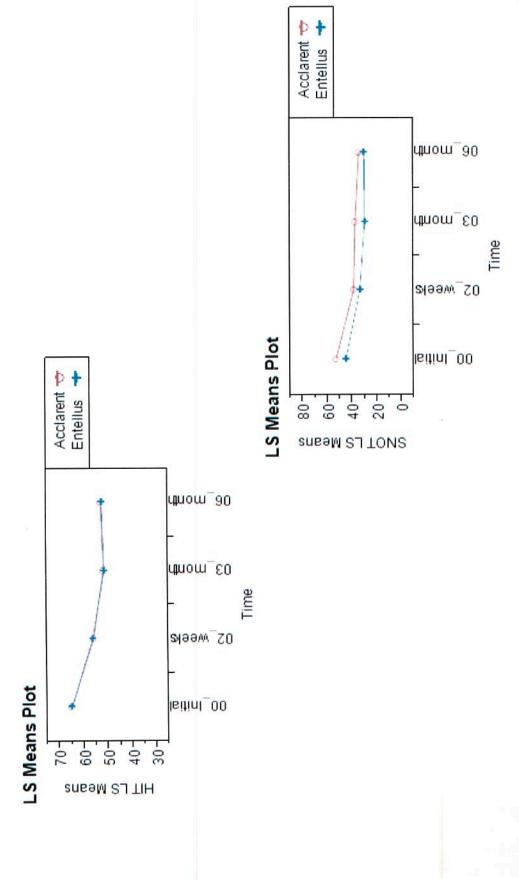
Methods

- nasal dilation in the clinic with 2 different brands of balloon catheter dilation of "affected" sinuses vs Patients were blinded and randomized to either balloon devices
- Post-op antibiotics, medrol dosepak, and Norco were given to all patients
- questionnaires and medication logs at 2 weeks, 3 Followed-up for complications and repeat months, and 6 months post

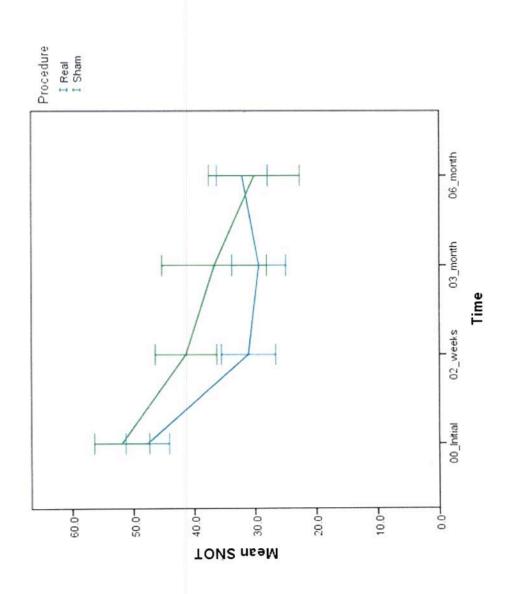
Results

- 34 patients were recruited and underwent the procedure (27 female vs 7 male)
- 18 underwent balloon catheter dilation vs 16 underwent nasal dilation
- Complications: 4 patients had post-op infections (2 balloon and 2 dilation)

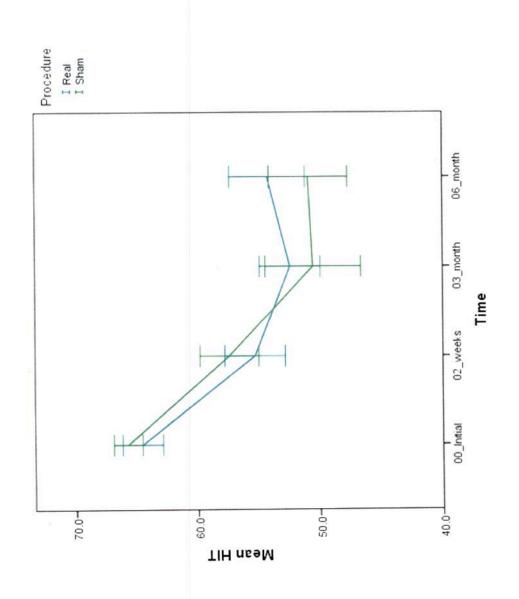
Results - Device



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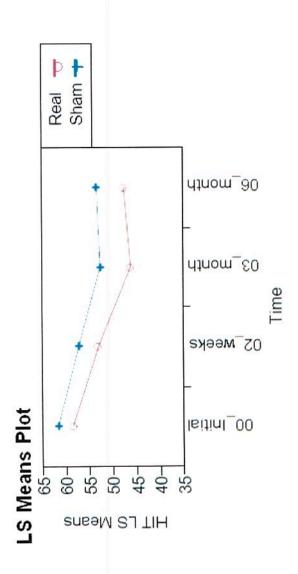


Results – HITF-6

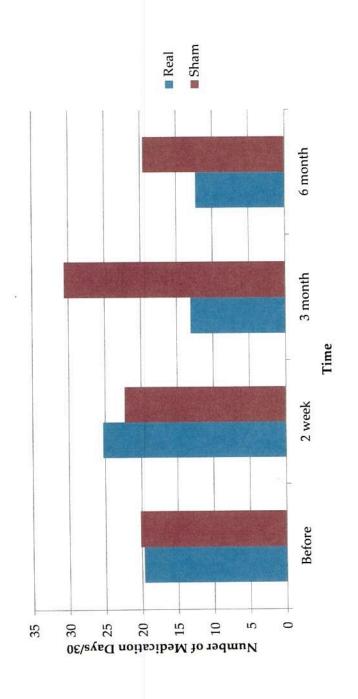


HIT-6 ≥ 65 Results





Results – Medication Use



Conclusion

- appear to provide clinically significant improvement Balloon catheter dilation and nasal dilation both in SNOT-22 and HIT-6 scores in patients with sinus pressure headaches
- Entellus and Acclarent devices provide equivocal results
- severe headaches (HIT-6 >65) regarding the utility of Further investigation is needed in patients with more balloon catheter dilation and with regard to changes in medication utilization